

Huawei ICT Competition 2024-2025 Exam Outline

Practice Competition - Network Track



1. Overview

Competition Stage	Exam Type	Duration	Number of Questions	Question Type	Total Score	Number of Contestants	Note		
Preliminary Stage (Mandatory)	Written	90 minutes	60	True or false questions, single- answer questions, and multiple- answer questions	1000	Individual	From January 1, 2024 to the end date of the Preliminary Stage, 50 bonus points will be acquired for passing any of HCIA-Datacom/Security/WLAN certifications, 100 bonus points for any of HCIP-Datacom/Security/WLAN certifications, and 200 bonus points for any of HCIP-Datacom/Security/WLAN certifications. These bonus points can be combined up to a maximum of 200 points. Important: The Uniportal account used for the competition registration must be the same as that for the certification. Otherwise, no bonus point can be given.		
National Stage	Written	90 minutes	90	True or false questions, single- answer questions, and multiple- answer questions	1000	Individual	/		
Regional Stage	Written	60 minutes	60	True or false questions, single- answer questions, and multiple- answer questions	1000	2 (as a team)	In Regional Stage, each of the three contestants in a team needs to complete the test questions for the written exam, and they will together complete the tasks for the lab exam. One team can submit only one set of answers for each of their written and lab exams. Total score = 30% x Average written		
	Lab	4 hours	/	Comprehensive lab	1000	3 (as a team)	exam score of the team + 70% x Comprehensive lab exam score		
Global Stage	Lab	8 hours	/	Comprehensive lab	1000		1		

2. Weighting

Competition Stage	Preliminary Stage	National Stage	Regiona	al Stage	Global Stage	
Technical Direction	Freminiary Stage	National Stage	Written	Lab	Gional Stage	
Datacom	40%	40%	40%	50%	50%	
DCN	20%	20%	20%	0%	0%	
Security	20%	20%	20%	25%	20%	
WLAN	20%	20%	20%	25%	30%	

No.	twork T	rack exam		com, DCN, security, and WLAN technologies, including but not limited to routing protocols	s, Layer 2 sw	vitching techno	ologies, IP\	v6
trotuce of the control of the contro	ogies, d	data center	networks, Huawei firewall fea					
Page		uge to D				National Stage	Regional Stage	(
Part	on C	Category	Key Items	Description		HCIP	HCIE	1
Minimary	Dat	tacom basics		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		✓	4	I
Heavest programmer and section of the content of th			technical principles and configurations of TCP, UDP, ARP, IP, NAT, Telnet, FTP, and DHCP.	·	√ √	√ √	+	
Minimate		VLAN	Master the principles and configurations of VLAN, VLANIF, MUX VLAN, and VLAN aggregation.				‡	
Column		Stack and CSS	Mater the principles and configurations of technologies such as iStack and CSS.	1	√	1	+	
Many Many Many Many Many Many Many Many					✓			\pm
Mathematical			-					I
Weetlength and seat the property of the proper			OSPFv3		· ·	· /		#
Pubble P				1 1 1 1				+
Heap the second process and seco			·	7 7 7 7	4			Ŧ
March Marc						4	✓	t
Part	10.0					4	4	ļ
Part	IPv6	6 technologies		0	·	·	· ·	t
March Marc					4			Ŧ
March Marc				Policy.		· ·	1	+
Miller			IFIT	Master the IFIT measurement model, IFIT packet loss measurement mechanism, and IFIT delay measurement mechanism.		~	4	İ
Minimization Mini	WAN	N technologies			4	√	√	Ŧ
March Marc	MPLS	.S technologies				✓	~	t
Management Man								Ŧ
Month Committee March Marc	VPN	N technologies	-			· ·		+
March Marc		=	VXLAN	Master the basic principles and configurations of VXLAN (VXLAN-based virtual network).		√		#
Water Company Water Wa		Multim				· ·	·	+
Processor Proc			PIM	Understand the principles and configurations of PIM.				‡
More to compare of the compare of th	Netv	twork security		Have a good command of port isolation, MAC address table security, port security, MAC address flapping prevention and	· ·	· ·		t
March Marc	te	echnologies	Network access control	Master the principles and configurations of 802.1X authentication, MAC address authentication, Portal authentication, and policy		√	✓	t
Service of the control of the contro			Network reliability technologies			1	✓	t
Management of the control of the con	op	ptimization	Network optimization technologies	Master the basic principles and configurations of QoS.			1	t
Service Control of Con		Network	Network management and monitoring		4	· ·	✓	t
Secretary description of the properties of processes of the processes of t	man	management and network		Have a good command of basic knowledge as well as the principles and practices of NETCONF and Python.		·	1	t
Secretary and se	a	automation		Master the basic principles and practices of SSH, YANG, Telemetry, and RESTful.			1	t
Underlieben and internal courties in courties and internal courtie	SDN	N technologies						t
Part Company				Master the Huawei CloudCampus solution, including the development and challenges of small- and medium-sized campus				t
International Control			CloudCampus solution for campus networks	networks (public cloud/MSP-owned cloud management) and large- and medium-sized campus networks (VXLAN-based virtualized campus network), as well as the technical principles, planning, design, and deployment of the solution.		v	· ·	1
COST BACK COST AND	spec	ecific solutions		principles, planning, design, and deployment.		✓	✓	1
And one of the control of the contro			CloudWAN solution for WANs			✓	✓	1
Machanized Code Code Code Code Code Code Code Co	0	DCN basics			v	✓	1	
selections with relief below. In principles and intelligent imprises the principles and intelligent imprises and impris				application of these technologies in data centers.	✓	~	√	1
well-performance in activity of the controlled and projection and controlled and projection and controlled and projection and the controlled and projection and controlled	tech	hnologies and	OpenStack cloud platform and container technologies				✓	_
Consideration for extractions of contraction processes and confirmation and contraction for extraction and contraction for extraction for ext				Have a good command of the principles and typical application scenarios of key intelligent lossless technologies; have general knowledge of the definitions of high-performance computing, artificial intelligence, and deep learning.			✓	
Could all County and C			Hosting and computing	Have a good command of the service deployment process in basic scenarios of the data center network solution, and service orchestration principles and traffic models in each basic scenario.	4	✓	✓	I
Social Series			Have a good command of the service deployment process, service orchestration principles, and traffic model in the cloud-network integration scenario; have general knowledge of the basic contents of the container network scenario.			√		
September in Solition and Mark Indication and September in Solition an	C	CloudFabric	Multi-cloud and multi-DC solution				4	t
BOCK partnering and control co		Solution	Supercomputing network solution and				1	t
DCP planning and oblight of the care reviews shorters and design and design of the care and reviews shorters and design of the care and shorters and design and the care and t					4	· ·	✓	t
DCN DMA DCN CRAIN will write the control security design, and management and DCN CRAIN will control to the control will be present handlege of the mininger ORAM will allow, typical CPU DRAM, and DCN CRAIN will and DCN CRAIN will all control to the control to th	DCN		DCN planning and design	Have general knowledge of data center network solutions and data center network planning and design, including network	· ·	4	·	t
Information Security Interference Security Interference Security Passagement Colors Colors Colors Security Interference Security		_		network security design, and management and O&M design.		√	4	+
Security independent of the principles of expertion and expertises received a partie management, without processors, and expertises and exper	In	nformation	Information security basics		4	✓	✓	İ
Security Collection (Control of Security Advanced forward features, inclination prevention, the Security endergotes according to a security control of Security restorating planning and deployment of deployment of deployment of deployment of the Security Proteoming and deployment of deployment of deployment of the Security Proteoming and deployment of the Security Proteoming and deployment of the Security Proteoming and deployment of the Security Proteoming and Advanced the principals of deployment of the Security Proteoming and Advanced the principals of deployment of the Security Proteoming and Advanced the Security Proteoming and Advanced to Security Proteoming and Advanced to Security Proteoming and Advanced to Security Proteoming and Advanced to Security Proteoming and Advanced to Security Proteoming and Advanced the Security Proteoming and Advanced to Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and Security Proteoming and S		security		related legal means, and information security assurance mechanisms and means.	*	✓	✓	1
Security rendered general garding and deployment of Cyber security networking planning and deployment in different scenarios. VPN basics (encryption and decryption) Basic threat defense Aff defines Aff define		Basic cyber security		intrusion prevention, IPv6 security, and endpoint access security.	*	~	· ·	1
Attack and defense What schrologies What schoologies Basic threat defense Aff defense Matter Aff defense Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter Aff defense Matter public cloud security stension searches, security deployment solutions, and security configuration asset of cloud Critics What a public cloud security service deployment on search solutions, and security definition asset of cloud Critics Security Transported center Security Transported center Security Matter Aff defense security service requirements, security deployment solutions, and security defigin. **Security Transported center Security OBM and analysis Company network security solutions Security OBM and analysis Company network security solutions Matter Aff defense security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Company network security solutions Matter Aff indiances is a company of the security solutions and specification and security requirements. Have a good command of a society Solution and security solutions. Company network security solutions Company network security solutions Company network security solutions Matter Aff indiances is a company of the security solutions and specification and security requirements. Have a good command of a period security se	Basic			selection.		√		+
VPN technologies VPN applications de femiliar with these vPN technology and its applications, as well as SSL VPN technology and its applications. VPN Net Nethnology Have a good command of VPN NA technology (applicable to hot standby scenarios). **Attack and defense APT defense APT defense APT defense APT defense APT defense APT defense APT defense APT defense APT defense APT defense APT defense, security statution awareness, and Clasianus facusity Cond. **Verse a good command of security service requirements, security deptonents solutions, and security configuration cases of cloud DCNs. Cloud EXCurrity Technologies Security OBM Security OBM and analysis Security OBM and analysis Security OBM and analysis Security vouldes/booting Femalitar with emergency response and network access control. Security vouldes/booting Campus network security solution Cloud network security solution Cloud network security solution Cloud network security solution Cloud network security solution Cloud network security solution Cloud network security solution Cloud network security solution WAAN reliability WAAN reliability WAAN reliability WAAN reliability WAAN reliability WAAN reliability WAAN security WAAN security WAAN security WAAN security WAAN reliability Waan	-		deployment		·	√	~	+
VIV NA Acchanicage Basic threat defense Basic threat defense Basic threat defense Basic threat defense And defense Beacurity defense And defense And defense And defe	VPN	N technologies		technologies.	4	· ·	4	+
Attack and defense April defense April defense April defense April defense April defense April defense April defense April defense, security situation awareness, and Qianhun Security Coud. Cloud Security Architecture design April defense A			**	Have a good command of VPN HA technology (applicable to hot standby scenarios).			1	#
Cloud security Cloud Security Rechards a security service requirements, security deployment solutions, and security configuration cases of cloud Cloud Security OBM Security OBM and analysis Security obligation in Security solution Security solution Campus network security solution DCN security solution Cloud network security solution Cloud network security solution Cloud network security solution Cloud network security solutions Cloud network security solutions Cloud network security solutions WLAN fundamentals Understand the CAPWAP tunnel, key WLAN packets, and STA online process WLAN redulating WLAN redulating WLAN redulating WLAN redulating WLAN security WLAN redulating WLAN security WLA	Cloud security Security O&M Scenario-specifi	ck and defense		penetration test basics.	·	~		1
Cloud security				Have a good command of security service requirements, security deployment solutions, and security configuration cases of cloud				+
Security namagement center Security OBM Security management center Security OBM and analysis Security troubleshooting Firewalthroubleshooting	loud security					·	+	
Security troubleshooting Security troubleshooting Firewall troubleshooting, PVB troubleshooting, PVB troubleshooting, and data filtering troubleshooting Campus network security solution Campus network security solution DCN security solutions Cloud network security solution Cloud network security solutions Cloud network security solutions Cloud network security solutions WLAN fundamentals Understand the CAPWAP tunnel, key WLAN packets, and STA online process. WLAN networking architecture WLAN reliability Have a good command of VRBP HSB, dual-link CSB, dual-			Security management center	Be familiar with emergency response and network access control.		✓	✓	#
Campus network security solution Campus network security requirements, security design, and security service deployment. DCN security solutions Cloud network security solutions Cloud network security solutions Cloud network security solutions Cloud network security solutions WLAN fundamentals Understand the CAPWAP tunnel, key WLAN packets, and STA online process. WLAN networking architecture Have a good command of the Pat AP, leader AP, WAC+ Fit AP, agile distributed, Navi AC, and Mesh. V. V. WLAN networking architecture WLAN reliability Have a good command of the Pat AP, leader AP, WAC+ Fit AP, agile distributed, Navi AC, and Mesh. V. V. V. V. V. V. V. WLAN networking architecture WLAN security nd defense WLAN reliability WLAN security WLAN security and defense WLAN reliability WLAN security WLAN security and defense WLAN reliability WLAN rel		ecurity O&M		technologies (HiSec Insight), and Huawei HiSec Solution.			√	1
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WLAN security WLAN security and defense Be familiar with WLAN network security threats, security solution overview, and security of the WLAN management, control, and forwarding planes. WLAN network access control Professand of 802.1X authentication, Portal authentication, MAC address authentication, and MAC address-prioritized WLAN roaming Be familiar with the WLAN roaming overview, roaming traffic forwarding process, roaming optimization technologies, and smart coming. WLAN radio resource management Advanced WLAN features WLAN and loT convergence Understand the loT overview, loT development trend, loT short-range wireless technology overview, and Huawei CloudCampus for Solution. WLAN wireless positioning Understand wireless positioning overview, wireless positioning fundamentals, and Huawei Cloud Campus Wireless Positioning Solution. Understand wireless positioning overview, wireless positioning fundamentals, and Huawei Cloud Campus Wireless Positioning Solution. WLAN construction Have a good command of IPv6 overview, wireless WLAN networking and application, IPv6-based WLAN NAC, IPv6-based WLAN NAC, IPv6-based WLAN Network security, and WLAN IPv6 evolution.		WLAN security	,		·	·		f
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WILAN roaming WILAN roaming WILAN roaming WILAN radio resource management Have a good command of WILAN air interface performance, radio calibration, STA steering, band steering, AP-based load balancing, user CAC, WILAN air-interface, WILAN GS, and VIP user experience assurance. WILAN and IoT convergence Understand the IoT overview, IoT development trend, IoT short-range wireless technology overview, and Huawei CloudCampus oid Solution. WILAN wireless positioning Understand wireless positioning overview, wireless positioning fundamentals, and Huawei Cloud Campus Wireless Positioning Solution. IPG WILAN construction Have a good command of IPv6 overview, iPv6-based WILAN networking and application, IPv6-based WILAN NAC, IPv6-based WILAN network security, and WILAN IPv6 evolution.			,	forwarding planes. Have a good command of 802.1X authentication, Portal authentication, MAC address authentication, and MAC address-prioritized	· ·	· ·	· ·	+
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network security, and wulkn live evolution.	WLAN network		· -	Solution. Have a good command of IPv6 overview, IPv6-based WLAN networking and application, IPv6-based WLAN NAC, IPv6-based WLAN				+
and the control of th				network security, and WLAN IPv6 evolution.	4	· ·		+
WLAN network planning tool Understand how to use the WLAN Planner and CloudCampus APP.			· -			~	1	#

Note

Have a good command of conventional WLAN O&M.

Be familiar with intelligent O&M overview, real-time experience visualization, minute-level fault demarcation, and intelligent network optimization.

Have a good command of WLAN troubleshooting overview, reliability faults, cloud management faults, wireless bridge service faults, radio management service faults, and roaming service faults.

V

Conventional O&M

Intelligent O&M

Troubleshooting